## BRUHAT BANGALORE MAHANAGARA PALIKE
## DASARAHALLI Zone, Electrical Division

**Name of Work:-** Replacement of Burntout UG Cable,Panels boards and its accessories coming under Dasarahalli Zone Ward 12,13,14,15

**Estimate No:-** 20/21.22 dt.13/12/2021 **For Rs.** 500000.00

| Sl No | SR Page & SL No | Description Of Work | Unit | Qty | Rate | Amount |
|---|---|---|---|---|---|---|
| 1 | 66/12.8/12.8.1 | Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer &Cree/Nichia/Lumileds/Osram make LED Source. LED Streetlight 24watts | Nos | 15 | 1840.00 | 27600.00 |
| 2 | 14/4.1/4.4.1 | Fabricating, supplying and erection of ...Mtrs long hot dip Galvanized Conical pole with BSEN 10025 grade S355JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for .....Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom .....mm, top....mm with 3mm thick, suitable base plate and 4Nos of ..... long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and153etc.,(excluding foundation) as per drawing appended.3 meters - Top 75mm and bottom 105 mm dia | Each | 5 | 5037.00 | 25185.00 |
| 3 | 16.4.1/4.7.1 | Supplying, and fixing of Hot dip Galvanized M.S.Bracket suitable for out door luminaries and mounted on Octagonal pole using necessary bolts, nuts etc., complete Single Arm Bracket with 1000mm Standard 40/50MM dia | Each | 15 | 1689.00 | 25335.00 |

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| 4 | 40/6.4.6.4.4 | Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975. 4 core 16 sqmm | Mtrs | 225 | 150.00 | 33750.00 |
| 5 | 41/6.6/6.6.1 | Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete. (As perCivil SR KSRB I-2, P-7).a) In soil (ordinary) | Mtrs | 225 | 76.00 | 17100.00 |
| 6 | 41/6.5.1 | Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required. In existing trench/duct.6 sqmm to 16 sqmm | Mtrs | 225 | 11.88 | 2673.00 |
| 7 | 5/2.3/2.3.2 | Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments. Materials.b)1.5 sqmm | Mtrs | 100 | 20.50 | 2050.00 |
| 8 | 5/2.3.3 | Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest 6sqmm | Mtrs | 15 | 70.00 | 1050.00 |
| 9 | 79/14.1/14.1.2 | supplying and Fixing of.....mm dia class A GI pipe bracket up to 2 Mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires. Using 32mm dia G.I.Pipe | Each | 328 | 835.00 | 273880.00 |
| 10 | 7/2.7/2.7.1 | Wiring for lighting/power circuit using one of PVC insulated 1100V grade, stranded Aluminium wire single core in open or concealed system of wiring.4 sqmm | Mtr | 1275 | 9.00 | 11475.00 |
| 11 | 26/5.13/5.13.3 | Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947. d) 60-70Amps | Nos | 1 | 4200.00 | 4200.00 |
| 12 | 27/5.17/5.17.4 | Supplying and fixing miniature circuit breakers on existing MCB distribution boards usingnecessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 6-32 Amps DP | Nos | 1 | 909.00 | 909.00 |
| 13 | 30/5.41/5.41.1 | Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.. a)40X40X6mm | Mtrs | 5 | 255.00 | 1275.00 |
| 14 | 30/5.42/5.42.2 | Fabricating supplying and mounting MS box made out SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete. 16SWG | Sqcm | 35000 | 0.35 | 12250.00 |

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| | 3.9 | Supplying and fixing hylum plastic sheet 3mm thick with necessary nitches for fixing switches, regulators etc., and fixing on existing wood or metal box using N.F. screws. | Sqcm | 10000 | 0.24 | 2400.00 |
| 16 | 24/5.7/5.7.3 | Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers..63Amps | Nos | 3 | 227.00 | 681.00 |
| 17 | 32/5.48 | Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary bolts, nuts and washers. | Nos | 1 | 4030.00 | 4030.00 |
| | | **Total Rs** | | | | **445843.00** |
| | | **Add GST 12%** | | **445843.00** | | **53501.16** |
| | | **Mislenious** | | | | **655.84** |
| | | **Total Rs** | | | | **500000.00** |

**CERTIFICATE :-**

1. The place was inspected and the work is essential.
2. The provision made in the estimate are adequate and necessary and the work comes in the BBMP limit and is legitimate Charges on the BBMP funds.
3. The rates in the Estimate is based on KPWD Elec Sr 2019-20 and approved rates

**JE /AE Engineer (Elec)**

Asst. Exe.Engineer (Elec)
Sub-Division No.
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
DASARAHALLI DIVISION
BRUHAT BANGALORE MAHANAGARA PALIKE

ಸಂಖ್ಯೆ. ಬೃ.ಬೆಂ.ಗ.ಪಾ : ಪಾ.ವ : ತಾಂತ್ರಿಕ :07/ 2021 - 2022
ದಿನಾಂಕ: 13/12/21. ಮೊತ್ತವು ಮಿಲಿಯನ್ನು ರೂ.05:00.....
ಅಕ್ಷರದಲ್ಲಿ ಐದು ಲಕ್ಷ ಮಾತ್ರ .....
ಗಳಿಗೆ ಮಾನ್ಯ 2021 - 22
ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು-57.

ನಂ20 ಕಾ.ಆ.(ವಿ)ದಾವ 20 2021 - 2022
ದಿನಾಂಕ 13/12/21 ರೂ 05:00 ಆಕ್ಷರಗಳಲ್ಲಿ
ಐದು ಲಕ್ಷ ರೂಪಾಯಿ ಗಳ
ಅಂದಾಜು ಪತ್ರಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದ್ದು,
ಮೊತ್ತ ಸಂಖ್ಯೆ 38 ಕ್ರಿಯಾಪಟ್ಟಿ 20
ಕಾರ್ಯನಿರ್ವಾಹಕ ಎಂಜಿನಿಯರು (ವಿ)
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು

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